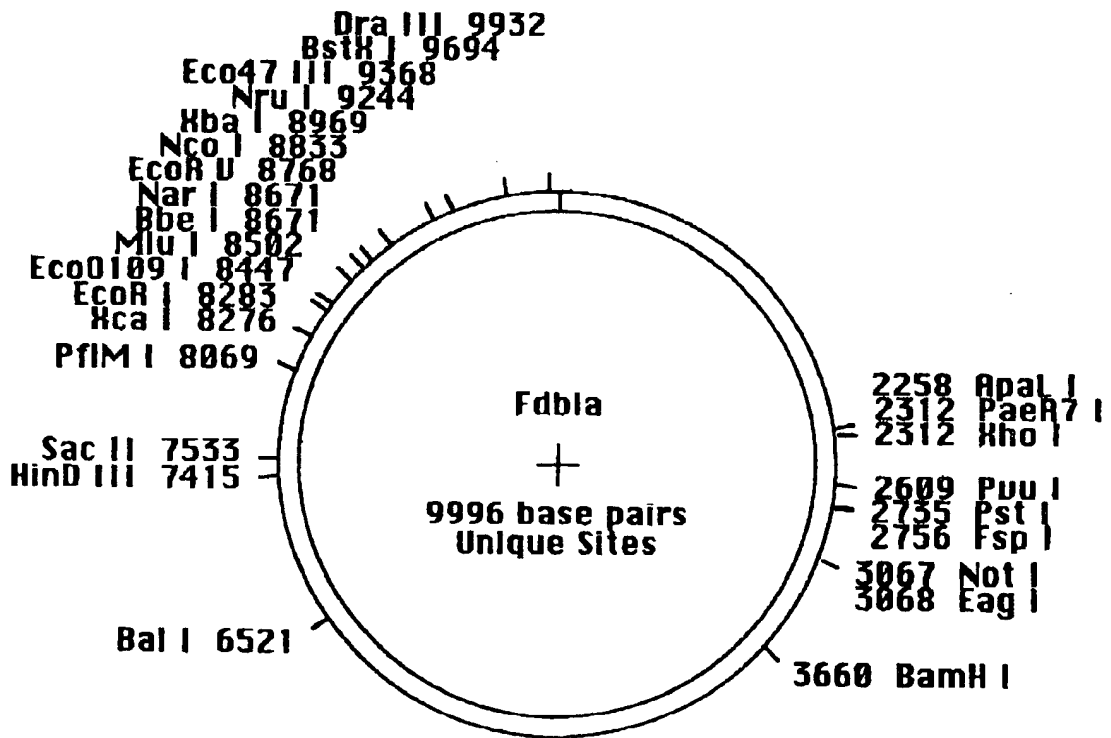


Fdbla -> Graphic Map

DNA sequence 9996 b.p. AATAGTGGACTC ... TCCACGTTCTTT circular



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fig 1a

ApaI
GTGCACAGCCAGAAACGCTGGTGAAAGTAAAGATGCTGAAGATCAGTTGGGTGCTCGAGTGGGTACATCGA
 Q P E T L V K V K D A E D Q L G A R V G Y I E
 26 31 41

XhoI
 ACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTC
 L D L N S G K I L E S F R P E E R F P M M S T F K V
 51 61 71

TGCTATGTGGCGCGGTATTATCCCGTGTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGAC
 L L C G A V L S R V D A G Q E Q L G R R I H Y S Q N D
 81 91 101

TTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAAC
 L V E Y S P V T E K H L T D G M T V R E L C S A A I T
 111 121

PvuI
 CATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACA
 M S D N T A A N L L L T T I G G P K E L T A F L H N
 131 141 151

TGGGGGATCATGTAACCTGCGCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACG
 M G D H V T R L D R W E P E L N E A I P N D E R D T T
 161 171 181

PstI FspI
 ATGCCTGCAGCAATGGCAACAACGTTGCGCAAACTATTAAGTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAAT
 M P A A M A T T L R K L L T G E L L T L A S R Q Q L I
 191 201

AGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAAT
 D W M E A D K V A G P L L R S A L P A G W F I A D K
 211 221 231

CTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATC
 S G A G E R G S R G I I A A L G P D G K P S R I V V I
 241 251 261

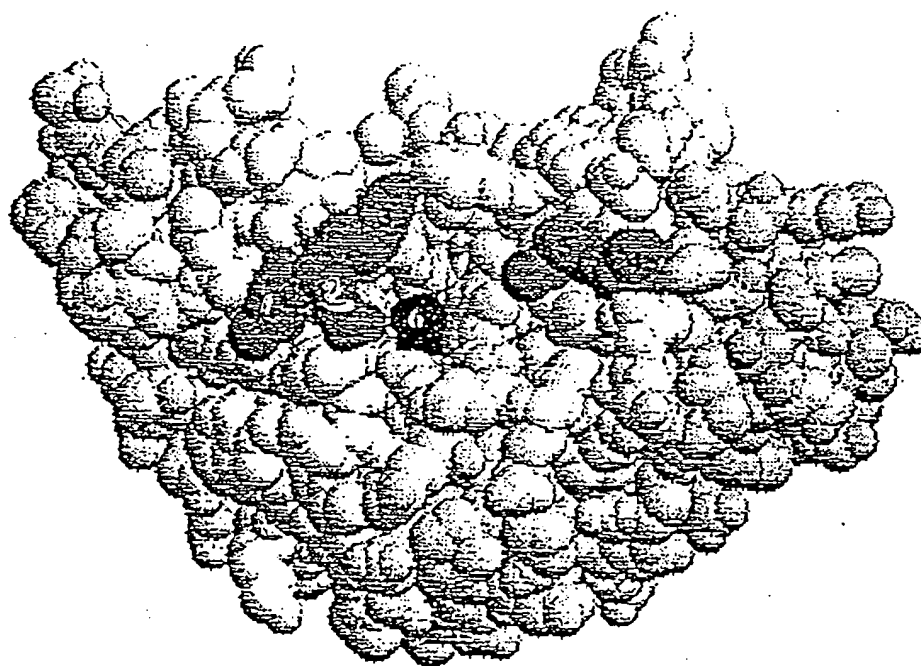
TACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTG
 Y T T G S Q A T M D E R N R Q I A E I G A S L I K H W
 271 281

NotI
 GGGGATTGAGGGGCGTGCGGCCGC
 G I E G R A A
 291

FIG. 1B

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lib1

1. V103
2. E104
3. Y105

lib3

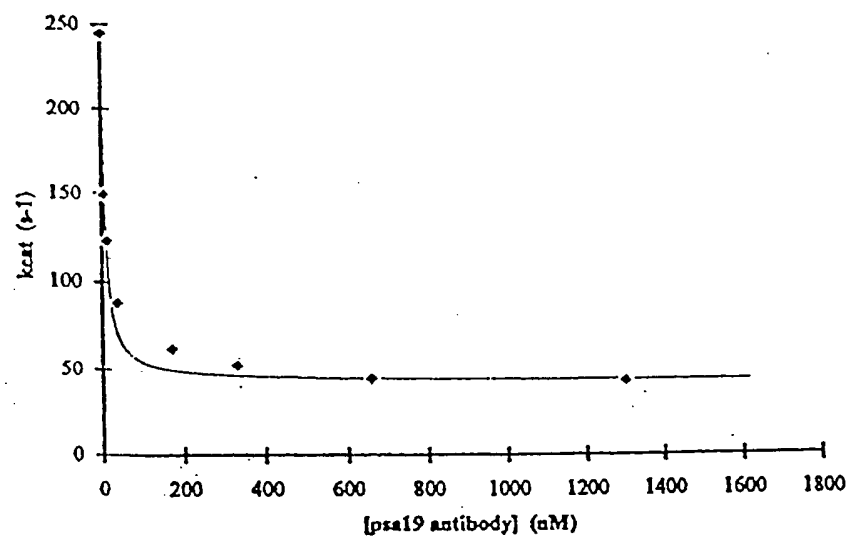
4. T271
5. M272

Catalytic site

6. S70

FIG. 1C

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[psa19Aj302] = $2,4 \cdot 10^{-9}$ M

$K_d = 5,7 \cdot 10^{-9}$ M

FIG. 2

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Clone psa19Aj302.

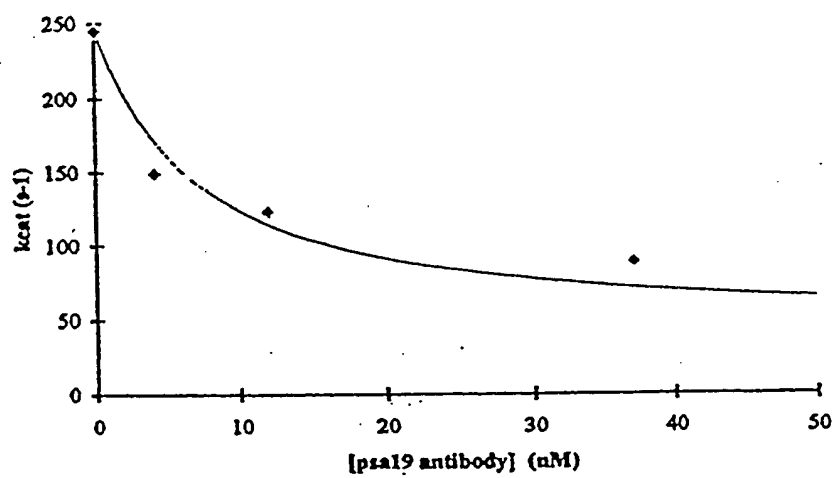


FIG. 3

Clone p19Rb404.

substrate = PenG

Kcat-E (s-1)	Kcat-Eab (s-1)	[Et] (nM)	kd (nM)
134,3	11	2,4	50

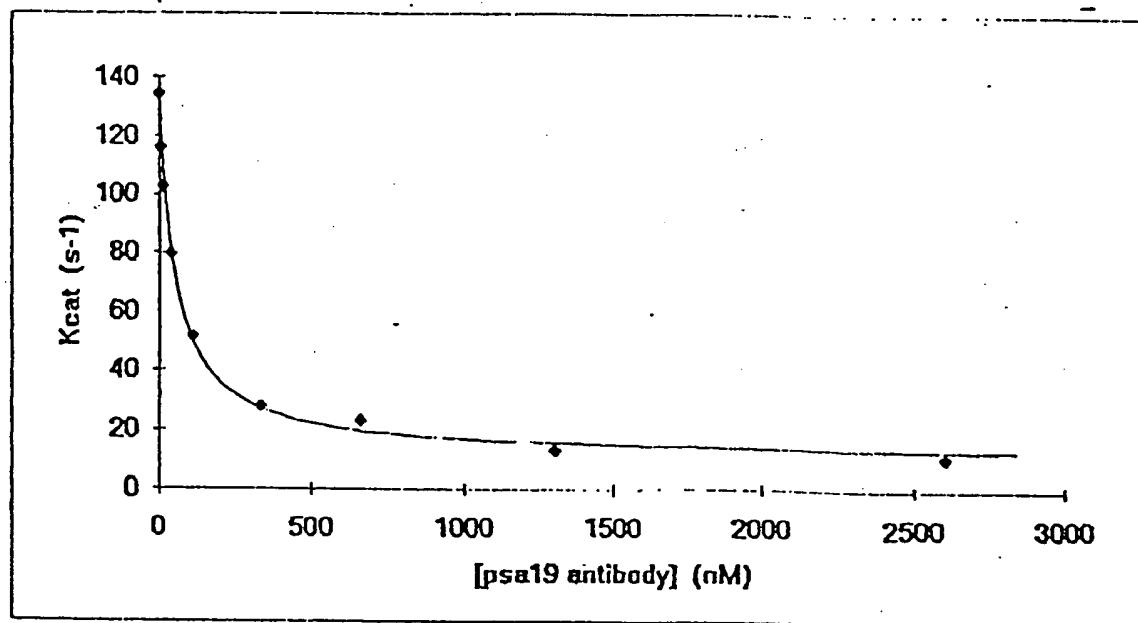


FIG. 4

FIG. 5A

Clone p66Rb330

substrate = Centa

Kcat-E (s-1)	Kcat-Eab (s-1)	[Et] (nM)	kd (nM)
32,8	56,5	6,4	360

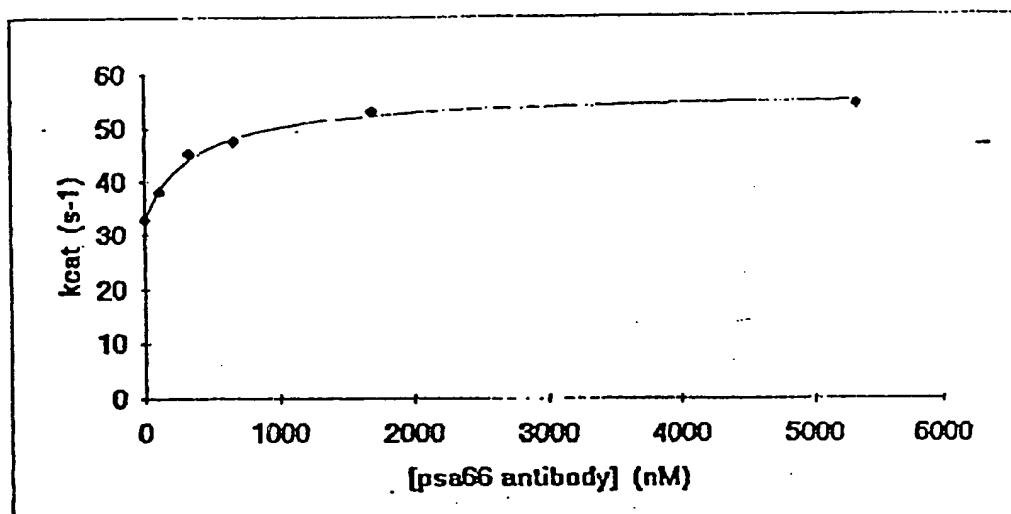
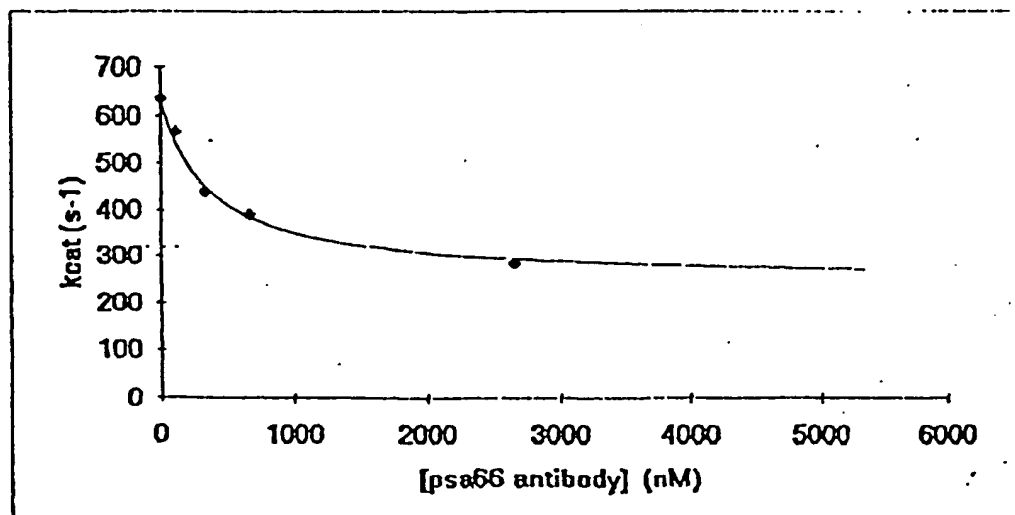


FIG. 5B

substrate = PADAC

Kcat-E (s-1)	Kcat-Eab (s-1)	[Et] (nM)	kd (nM)
636,8	245	0,64	360



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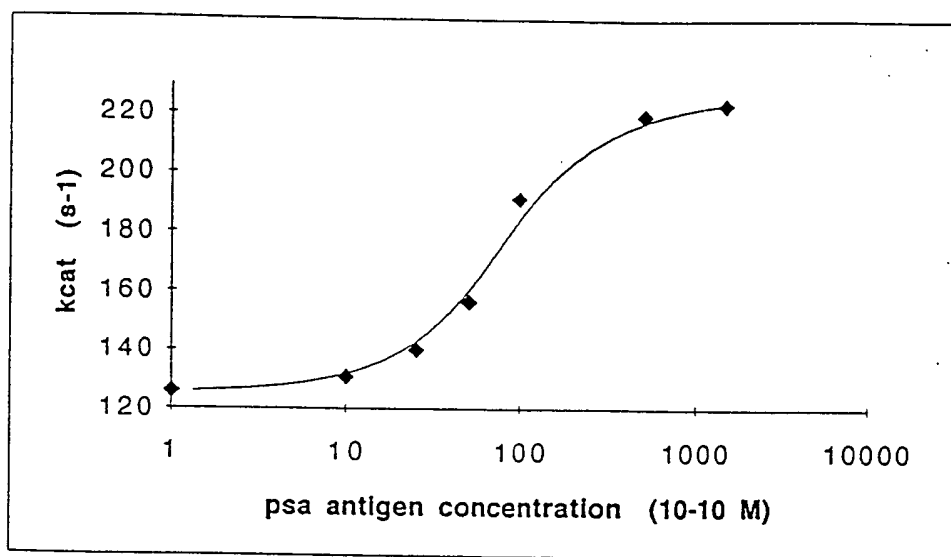


FIG. 6

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